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The forty-fifth regular meeting of the Society was held on the evening of September 14, 1912, at the residence of Dr. F. E. Blaisdell, 1520 Lake Street, San Francisco, Calif.

President Van Dyke in the chair.

The minutes of the preceding meeting were read and approved.

Eleven members responded to roll call as follows:

Dr. E. C. Van Dyke, Chas. Fuchs, J. C. Bridwell, J. E. Cottle, Miss Julia Wright, L. R. Reynolds, F. W. Nunenmacher, Chas. L. Fox, Percy Baumberger, J. C. Huguenin, and Dr. F. E. Blaisdell.

Nine guests were present:

Mrs. L. R. Reynolds, Mrs. F. E. Blaisdell, F. E. Blaisdell, Jr., Geo. A. Wright, Mrs. Julia Wright, Miss Bessie Wright, Mrs. Chas. Fuchs, Mrs. J. E. Cottle and Miss Greer.

The Treasurer then rendered his report.

Mr. Bridwell reported what he had learned relative to the starting of a Branch of the Pacific Coast Entomological Society in Southern California. During a recent visit to Los Angeles he had talked with several Entomologists of that City and determined that no idea was entertained of starting a Branch there. The impression was that some of the Entomologists of that place and suburbs would join the Society direct. Mr. Bridwell was appointed a committee of one to find out who would join the Pacific Coast Society.

A communication was read from Mr. Fordyce Grinnell, in which it was stated that Messrs. Newcomb, Haskin and Coolidge had recently (last of August) taken a nice series of *Lycaena neurona* Skinner on Mt. Wilson.

Mr. Huguenin made a few remarks about collecting in Marin County, California.

Percy Baumberger, who is engaged in the work of extermination of mosquitoes, reported on the manner in which the campaign was being carried on. He stated that after spraying the marshes and a control of the mosquitoes was evident, that the East winds would blow and that the insects would again become abundant.

Mr. Fuchs stated that he had some species of Coleoptera from the Farallone Islands in duplicate and that members of the Society could have specimens of *Aegialites fuchsi* Horn.

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Mr. Cottle gave an account of his Summer's vacation in July at Castella, Shasta County, California, stating that specimens of *Monohammus maculosus* had been taken at an elevation of about 3000 feet.

Mr. Bridwell gave his experience in collecting in the Imperial Valley. Mr. Reynolds reported the results of his work at San Diego, California.

Mr. Cottle, acting as President *pro tempore*, permitted Dr. Van Dyke to take the floor and to discuss the distribution of the species of *Harpalus* and *Aegialites*, with an account of the work done on a collecting trip to Strawberry Canyon, Eldorado County, elevation 6000 feet.

Mr. Huguenin exhibited specimens of Coleoptera and Lepidoptera taken in the Yosemite Valley.

Mr. Reynolds presented a series of *Cicindelae* from San Diego.

Mr. Cottle showed a collection of Coleoptera and Lepidoptera taken at Castella, California.

Miss Wright exhibited several specimens of Coleoptera and Mr. Bridwell a number of insects from the Imperial Valley, California.

Adjournment and refreshments.

F. E. BLAISDELL, Secretary.

The forty-sixth meeting of the Society was held on the evening of December 3, 1912, at the residence of James E. Cottle, 2117 Bush Street, San Francisco, California.

President Van Dyke in the chair.

The minutes of the preceding meeting were read and approved.

Ten members answered to roll call, namely:

Chas. Fuchs, Dr. E. C. Van Dyke, J. C. Bridwell, Ralph Hopping, L. R. Reynolds, J. E. Cottle, Dr. F. E. Blaisdell, Miss Julia Wright, J. G. Grundel, F. W. Nunenmacher.

Eight guests were present:

Mrs. L. R. Reynolds, Mrs. J. E. Cottle, Mrs. Chas. Fuchs, Miss Bessie Wright, Mrs. Ralph Hopping, Miss Dorothy Hopping, Mr. Harold C. Bryant, Mrs. F. E. Blaisdell.

The report of the Treasurer was read and accepted.

Mr. Bridwell, committee of one on determining what members of the Entomological Society of Southern California, would join the Pacific Coast Ent. Society, stated that he had nothing to report. The committee was discharged.

In the matter of the Pacific Coast Entomological Society, joining the Pacific Association of Scientific Societies, it was

decided by a unanimous vote not to join, as the Society needed all of its funds to publish its Proceedings. It would be possible to do so, however, if the membership of the Society could be sufficiently increased.

The following records on the collecting of *Calligrapha sigmoidea* for three consecutive Winters,—1910, 1911 and 1912,—was then presented by Mr. J. C. Huguenin as follows:

I present to you my notes on the collecting of *Calligrapha Sigmoidea* in the vicinity of San Francisco, on the Sunnyside Hills, at an elevation of 500 feet. On February 26th, 1910, three specimens; March 11th, seven; April, nine; December 7th, three; December 18th, six; January 3d (1911), five; February 15th, four; February 20th, five; March 12th, nine; March 21st, eight; April 11th, five; two larvae were seen but not collected, the weather fine but slightly cold. April 19th, two; one larva about two weeks' old was observed, weather very fine and warm. April 29th, one imago and two larvae observed. May 9th, one imago; weather fine. On June 1st, none; June 12th, none; wild holly-hock plants (*Sidalcea malvaeflora*) all dried up. July 8th, none; September 15th, none; October 28th, none. November 16th, none; holly-hocks not yet out. November 28th, none; December 9th, none; weather very hot. December 20th, none and the holly-hocks not yet out. January 29th (1912), fourteen imagoes seen, the weather very fine and warm. February 14th, six imagoes observed but not collected; weather fine. May 17th, eight observed but not collected. Since March 17th, 1912, I did not visit the locality again. It therefore appears that it is a Winter and Spring species. In the discussion of the paper, Dr. Van Dyke thought that the imagoes observed were those that were hibernating and had been coaxed out by the fine weather. Mr. Huguenin did not agree with him as he had found the eggs and young larvae, hatching in the Winter and Spring months.

A communication from Mr. F. X. Williams, dated September 13th, 1912, was then read. Mr. Williams gave an interesting account of the general conditions of the country in Kansas, and of the Biological Expeditions sent out by the University of Kansas.

President Van Dyke stated that Mr. Wm. Mann had just left for Northern South America and Venezuela. He also remarked that he had recently heard from Mr. F. H. Shoemaker and that he had taken up special work at the University of Nebraska. Remarks were also made on the death of several eminent Coleopterists,—namely: Ludwig Ganglbauer, J. B. Smith and Mr. W. G. Wright. The loss of Mr. Frederick Blanchard was discussed. Mr. Reynolds said that Mr. Blanchard had collected the largest number of species of Coleoptera from a limited

area, of any known collector. This region was about Tynsborough, Mass.

Mr. Grundel reported a prolonged collecting trip to the Sierras.

Mr. Harold C. Bryant being present, was called upon and responded by giving a very instructive talk on "Protective devices in Insects." He asked for the opinions of the members present. It was stated that Bee-birds (*Tyrannus verticalis* and *T. vociferans*) feed only upon the drone bees. Dr. Blaisdell stated that he was positive that they fed abundantly upon the worker-bees (*Apis mellifica*); for during fourteen years in which he had worked in an apiary, he had shot hundreds of Bee-birds to protect the worker-bees. The stomachs of the birds were examined repeatedly and found filled with bee-stings which appeared to be indigestible.

Mr. Ralph Hopping, who is engaged in the Forestry Service for Insect Control, gave an account of the work done in the Service, speaking in particular on the ravages of *Dendroctonus* and *Phloeosinus*; the former killing the trees on which they depredate, the latter only the branches.

Mr. Bridwell stated that he considered Prof. Comstock's book—"The Spider Book"—as a very fine work. He also spoke of two rare or little known species of Hymenoptera which he had collected. *Methoca californica* Westwood, female, from Monte Rio, Sonoma County, parasitic in the burrows of tiger-beetles and the female of a new species of *Myrmosa* taken on the University of California Campus, Berkeley.

Mr. Grundel stated that the larvae of *Arctia* becomes abundant at times in the Santa Cruz Mountains and defoliates all of the live oaks.

President Van Dyke having requested Mr. Cottle to act as President *pro tempore*, gave a review of the genera of the *Elateridae*.

Dr. Blaisdell exhibited specimens of *Thysanocnemis helvolus* which lives in the seeds of *Fraxinus*, and *Idiostethus tubulatus* on various herbs. Both species were obtained by beating in the vicinity of Baltimore, Md. Two specimens of *Synetocephalus autumnalis* Fall, collected at Mokelumne Hill, Calaveras County, in October, from the foliage of the live oaks (*Quercus wislizeni*).

Adjournment and refreshments.

F. E. BLAISDELL, Secretary.

The forty-seventh meeting of the Society was held on the evening of March 1st, 1913, at the residence of Dr. F. E. Blaisdell, 1520 Lake Street, San Francisco, Calif.

President Van Dyke in the chair.

The minutes of the preceding meeting were read and approved.

Ten members answered to roll call as follows:

Chas. Fuchs, J. C. Bridwell, L. R. Reynolds, Percy Baumberger, Miss Alice Eastwood, J. C. Cottle, Chas. L. Fox, Dr. E. C. Van Dyke, Dr. F. E. Blaisdell, and Miss Julia Wright.

Nine guests were in attendance:

Mrs. Chas. Fuchs, Mrs. A. G. Blaisdell, Mrs. F. E. Blaisdell, F. E. Blaisdell, Jr., Miss Freda Daoust, Mrs. Julia Wright, Mrs. Foster Peek, Mrs. J. E. Cottle, and Mrs. L. R. Reynolds.

The Treasurer's report was then read.

Communications were received from the following:

A letter from J. G. Grundel, Oakdale, Calif., stating his inability to attend the meeting. From J. N. Bowman in regard to the Pacific Coast Ent. Soc. meeting with the Pacific Assoc. of Scientific Societies. An interesting lot of news from Kansas, by F. X. Williams.

The death of Mr. L. E. Ricksecker was announced. Mr. Cottle moved that the Secretary be instructed to express the regrets of the Society to Mrs. Ricksecker and family.

The motion was seconded and unanimously approved.

Prof. Wm. A. Hilton, Editor of the Pomona Journal, Claremont, Calif., and Miss Ximena McGlashan of Truckee, Calif., were proposed for membership. The nominations were seconded. Prof. Hilton and Miss McGlashan were duly elected.

Mr. Sternitzky's paper—"Report on Two Collecting Trips to Lake Tahoe," was read by the Secretary, the author not being present. An abstract is as follows:

The second visit was from August 4th to August 31st, 1912, at Lakeside Park, State Line, Lake Tahoe. The season was late. Ants' nests were bestrewn with elytra and segments of Insects, that had been about earlier in the season, but were nowhere to be seen then. The Lepidoptera were all worn. In the latter part of his stay seven large larvae of the *Syrphidae*, probably of the genus *Microdon* were collected, from ants' nests. They were taken home with the intention of rearing them. They were kept alive for some time on moistened wood. They were finally forgotten and perished before maturing. Mr. Sternitzky stated that he was sure of one thing—that these larvae do not derive any nourishment from the ants, as they thrived quite well on the moistened wood. He thought the ants might have had some use for them, but even doubted that. Two specimens of

Buprestis connexa were taken at Edgewood. The following is a list of the rarer Coleoptera taken on the trip: *Acmaeodera vandykei*, *Ulochaetes leoninus*, *Tragosoma pilosicornis*, *Pterostichus morionides*, *Tachys fallii*, *Argonus cinerarius*, *Leptura valida*, *Pachyta spurca*, *Adelocera rorulenta*, *Melasis rufipennis* and *Serropalpus barbatus*.

Mr. Bridwell stated that he took *Dichelonycha clypeata* in Wild Cat Canyon back of Grizzly Peak, Alameda County, on February 13th, 1913. Eight specimens were secured. The insects were flying high up among Laurel Trees, i. e., about 10-12 ft. At the same time numerous bees were about, species belonging to the genera *Andrena* and *Anthrophora*. A black species of *Andrena* was about the wild gooseberry (*Ribes Menetresii*).

Mr. Sternitzky stated that he mistook the *Microdon* larvae for a species of Coccid—a Leucanid. Its markings are radial lines, similar to some *Coccidae*. He also observed Crickets with the Coccids in the ants' nest and thought that they were not dependent on the ants.

Mr. Cottle wanted to know why ants apparently never touched the crickets. Dr. Van Dyke thought that the ants were probably busy at the time. Mr. Bridwell said he had observed the ants eating the crickets. Dr. Van Dyke believed that the Syrphid larvae were dependent on the ants and not as Mr. Sternitzky believed. The larvae can be active although they appear sluggish.

Dr. Van Dyke also stated that *Dichelonycha clypeata* was described from a unique. Later Mr. Ricksecker collected many. Mr. A. Kusche found four or five in San Mateo County; Mr. Bridwell took males in Contra Costa County. The species was first recorded from the Alameda side of the Bay. *D. valida* is also found in Alameda County, in April on Redwood Peak.

Adjournment and refreshments.

F. E. BLAISDELL, Secretary.

A special meeting of the Society was held in conjunction with the Pacific Assoc. of Scientific Societies, on Thursday evening, April 10th, 1913, in Room 113 of the Agricultural Hall of the University of California, Berkeley.

The following members and guests were present:

President Van Dyke, F. E. Blaisdell, Sr., J. C. Bridwell, Mrs. J. C. Bridwell, Miss Julia Wright, F. W. Nunenmacher, Percy Baumberger, Geo. A. Coleman, Prof. C. W. Woodworth, and E. O. Essig.

The meeting was called to order at eight o'clock by Presi-

dent Van Dyke. After a few appropriate remarks the following programme was presented:

New Species of Tenebrionidae and the Technique for studying the Genitalia of the Coleoptera. By Frank E. Blaisdell, Sr.

A Review of the Coccinellidae. By F. W. Nunenmacher.

The littoral coleopterous Fauna of the Pacific Coast. By Edwin C. Van Dyke.

Remarks on the use of the lantern in illustrating the Insects of Economic Importance. By Prof. C. W. Woodworth.

F. E. BLAISDELL, Secretary.

The forty-eighth meeting or Field Day of the Society was not held, as no arrangements or decisions had been made at the forty-seventh meeting.

F. E. BLAISDELL, Secretary.

